Assignment3

大项 1 of 1 -				
题	目 1 of 30 1 得分			
	A couple has two female children. What is the probability that their next child will be male?			
	○ A. 25%			
	○ B. 67%			
	○ C. 33%			
	■ D. ~50%			
	重设选项			
上一题	下—题 保存 退出			
大项 1 c	v f 1			
迦日	3 2 of 30 1 得分			
	Achondroplasia is a form of dwarfism caused by a dominant allele. The homozygous dominant genotype causes death, so individuals who have this condition are all heterozygotes. If a person with achondroplasia mates with a person who does not have achondroplasia, what percentage of their children would be expected to have achondroplasia?			
	○ A. 0%			
	● B. 50%			
	○ C. 75%			
	○ D. 100%			
	重设选项			

题目 3 of 30 1 得分

	An individual with the genotype AaBb produces four different gametes in equa proportions. This is a demonstration of	I
	A. Mendel's principle of segregation	
	B. the chromosomal theory of inheritance	
	○ C. linkage	
	D. Mendel's law of independent assortment	
	重设选项	
EeFf	eff -> eeFx? 1/2*1/2	
大项	of 1 -	
Ę	1 4 of 30 1 得分	
	In humans, free earlobes (E) are dominant to attached earlobes (e) and the presence of freckles (F) is dominant to the absence of freckles (f). If an individual heterozygo for both of these traits were to mate with an individual with attached earlobes and no freckles, what is the probability of having a child with attached earlobes and freckles?	ous
	○ A. 0%	
	○ B. 50%	
	○ C. 100%	
	O D. 25%	
	<u>重设选项</u>	
	项 1 of 1 -	
	题目 5 of 30 1 得分	
	In humans, the inheritance of is best explained as being polygenic	
	A. height	
	○ B. sickle-cell disease	
	○ C. cystic fibrosis	
	○ D. blood type	
	重设选项	

题目 6 of 30 1 得分

	Linked genes are usually	
	○ A. found on the Y chromosome	
	○ B. codominant	
	O C. located close together on a chromosome	
	O. found on the X chromosome	
	重设选项	
大项:	1 of 1 -	
是	题目 7 of 30	1 得分
	The best definition of a purebred plant	is one that
	A. cannot be cross-fertilized	
	B. self-fertilizes to produce offspring identical	I to the parent
	C. self-fertilizes to produce hybrid offspring	
	O. produces sterile offspring when cross-ferti	lized
	重设选项	
	I of 1 - 面目 8 of 30	1 得分
	What data or test would you seek to deter	mine whether or not a trait is sex linked?
	A. Amniocentesis	
	○ B. karyotype	
	C. pedigree	
	O. metabolite test	
	重设选项	

题目 9 of 30 1 得分

	What is the basis of Mendel's laws?
	A. the behavior of chromosomes during metaphase I and anaphase I of meiosis
	B. the behavior of chromosomes during mitotic anaphase
	C. the behavior of chromosomes during prophase I of meiosis only
	O. the behavior of chromosomes during prophase I and prophase II of meiosis
	重设选项
大项 1	of 1 -
	目 10 of 30 1 得分
, AGE	1100
	What is the key to the recognition of codominance?
	A. The trait exhibits a continuous distribution
	B. The alleles affect more than one trait
	C. The phenotype of the heterozygote is integraliate between the phenotypes of the homozygotes
	O. The heterozygote expresses the phenotype of both homozygotes
	重设选项
大项	51 of 1 -
	题目 11 of 30 1 1 得分
	What is the key to the recognition of incomplete dominance?
	A. The heterozygote expresses the phenotype of both homozygotes.
	B. The trait exhibits a continuous distribution.
	O C. The phenotype of the heterozygote falls between the phenotypes of the homozygotes.
	O. The alleles affect more than one trait.
	<u>重设选项</u>

大项	5 1 of 1 -	
	题目 12 of 30	1 得分
目录	Which of these crosses A. AA × Aa B. Aa × Aa C. Aa × aa D. AA × aa 重设选项	will produce only heterozygous offspring?
	1 of 1 -	
톴	亟目 13 of 30	1 得分
	genes violate Me A. Codominant B. Recessive C. Pleiotropic D. Linked 重设选项	endel's principle of independent assortment.
	I of 1 - 回目 14 of 30	1 得分
	A mutation within a gene	that will insert a premature STOP codon in mRNA would
	A. change the location at wh	ich transcription of the next gene begins
	○ B. have the same effect as de	eleting a single nucleotide in the gene
	C. result in a shortened poly	peptide chain
	O. result in a longer polypep	tide chain
	電 设选项	

		Bacterial RNA polymerase binds to the
	(A. promoter
		B. regulatory gene
		C. operator
		D. proto-oncogene
	重	直设选项
大项 1	of 1	-
起	恒 16	5 of 30 1 得分
		ow is it that the cells in different body tissues are able to perform different unctions?
	\bigcirc	A. Different chromosomes have been inactivated in different cells.
		B. The mutations that have accumulated in the cells of the different tissues control functions.
	0	C. The cells exhibit different patterns of gene expression.
	\bigcirc	D. The cells contain different genes.
	重设	<u>设选项</u>
		i 1 of 1 -
		题目 17 of 30 1 得分
		In bacteria, what name is given to a cluster of genes with related functions, along with their DNA control sequences?
		○ A. exon
		○ B. operator
		○ C. promoter
		D. operon
		<u>重设选项</u>

题目	18	of	30

1 得分

In eukaryotic cells, repressor proteins inhibit transcription by binding to
○ A. operons
○ B. enhancers
O C. silencers
○ D. promoters
<u>重设选项</u>

大项 1 of 1 -

题目 19 of 30 1 得分

Many proto-oncogenes regulate _____.

A. cell growth

B. cell cloning

C. cell repair

D. cell division

重设选项

题目 20 of 30 1 得分

	The "master control genes" that regulate other genes and determine what body parts will develop in which locations are called
	A. oncogenes
	○ B. enhancers
	O C. homeotic genes
	O. operons
	重设选项
大项	i 1 of 1 -
	题目 21 of 30 1 得分
	The region of DNA where RNA synthesis begins is the
	O A. promoter
	○ B. terminator
	○ C. start codon
	○ D. stop codon
	重设选项

21秋第三次作业

12	ベカーベーエ	
目录		
大项	ī 1 of 1 -	
1	题目 22 of 30	1 得分
	Transcription is the A. manufacture of a strand of RNA complementar B. manufacture of two new DNA double helices th C. manufacture of a protein based on information D. modification of a strand of RNA prior to the manufacture	nat are identical to an old DNA double helix a carried by RNA
目录 大项	ī 1 of 1 -	
Ę	题目 23 of 30	1 得分
	What happened when researchers added BPI human lung cells in a laboratory experiment? A. The cells shrank in size. B. The cells required less energy to grow. C. The cells behaved normally. D. The cells developed mutations in their p53 genes.	

题目 24 of 30 1 得分

 \bigcirc D. smooth endoplasmic reticulum

重设选项

	What is a difference between embry	onic and adult stem cells?	
	O A. Embryonic stem cells are undifferentiat	ed; adult stem cells are partially differentiated.	
	B. It is easier to obtain embryonic stem ce	ells.	
	C. Adult stem cells cannot grow in culture		
	O. The use of embryonic stem cells raises	fewer ethical issues than the use of adult stem cells.	
	重设选项		
大项 1	ī 1 of 1 -		
题	题目 25 of 30	1 得分	
	Where in the cell is protein transla	ation performed?	
	○ A. nucleoli		
	○ B. lysosomes		
	O C. ribosomes		

题目 26 of 30

1 得分

	Which of the following is NOT a possible use of reproductive cloning?
	A. the production of organs in large farm animals for transplant into humans
	B. restocking populations of extinct animals such as the wooly mammoth
	○ C. the production of genetically identical mice and rats for experimentation
	O D. creating stocks of stem cells for human therapeutic use
	重设选项
7	大项 1 of 1 -
	题目 27 of 30 1 得分
	Which of the following is NOT an example of how tumors evolve?
	A. Tumor cells can spread throughout the body.
	B. Tumor cells pass on mutations when they divide.
	C. Tumor cells show genetic variability.
	O. Tumor cells grow uncontrollably.
	<u>重设选项</u>
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录	
大项 1	of 1 -
题	i目 28 of 30 1 得分
	Which of these is most likely to cause the development of a six-legged frog?
	A. conversion of a proto-oncogene to an oncogene
	O B. mutation of homeotic genes
	C. binding of repressors to operons
	D. a mutation in DNA polymerase that affects all cells
	重设选项

21秋第三次作业

日录		
大项 1 of 1 -		
	题目 29 of 30	1 得分
	Which risk factor is associated with cancer of the colon and rectum?	
	A. UV radiation	
	○ B. viruses	
	O C. dietary fat	
	O. tobacco	
	重设选项	
大项 1 of 1 -		
题目 30 of 30		1 得分
While examining a human cell that functions normally, you determine that it has 45 functional chromosomes and one chromosome that is almost completely inactive. You immediately decide that it is very likely that this cell		
	O A. came from a normal human female	

这个30题为啥???

重设选项

OB. is a gamete

 \bigcirc C. is lacking a chromosome

 \bigcirc D. will become cancerous if one or two more genes are mutated